

REMARKS

Claims 1-38 are now pending. Claims 1, 2, 3, 11, 12, 34, and 35 are now amended. The claim amendments are fully supported by the application as filed and do not present new subject matter. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

TELEPHONIC INTERVIEW

Applicants' representative, Brent G. Seitz, thanks Examiner Lesperance for the courtesies extended during the telephonic interview of August 12, 2005. During the interview, differences between Applicants' claims and the cited art were generally discussed. No agreements were reached.

REJECTION UNDER 35 U.S.C. § 103

Claims 1-38 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sugimoto et al. (U.S. Pat. No. 5,777,610). This rejection is respectfully traversed.

Independent Claims 1, 2, 3, 11, 12, 34, and 35 are now amended.

Claims 1, 2, 11, 34, and 35 are each amended to generally recite, in part and with reference to Figures 2 and 4 for exemplary purposes only as the invention includes numerous embodiments, terminals 29A (Figure 4), 32A formed on the glass substrate and a driver integrated circuit 27, 28, 31 mechanically fixed directly on the glass substrate. The driver integrated circuit includes bumps 28A that are electrically connected to the terminals 29A.

Claims 3 and 12 are now amended to recite, in part and with reference to Figures 2 and 4 for exemplary purposes only as the invention includes numerous embodiments,

first terminals 32A formed on a first glass substrate 24 and second terminals 29A formed on a second glass substrate 23.

A scanning driver integrated circuit 31 is connected to scanning electrodes 26. The scanning driver integrated circuit 31 is mechanically fixed directly to the first extended area 24A. The scanning integrated circuit includes bumps that are electrically connected to first terminals 32A.

A data-signal driver integrated circuit 27, 28 is connected to the data-signal electrodes. The data-signal driver integrated circuit is mechanically fixed directly on a second extended area 23A. The data-signal driver integrated circuit 28 includes bumps 28A that are electrically connected to second terminals 29A.

The Sugimoto et al. reference appears to disclose, with reference to Figures 4 and 5, driver integrated circuits 15 and 16 mounted to flexible wiring boards 13 and 19 respectively. The driver integrated circuits are not mounted on an extended area of the glass substrate 11B by chip on glass (COG) mounting using bumps and terminals, as generally set forth in amended independent Claims 1, 2, 3, 11, 12, 34 and 35.

In the Response to Amendment section of the Office Action, the Examiner correctly states that the wiring board 19 overlaps the substrate 11B. However, the wiring board 19 is different from the driver IC 16 of Sugimoto et al. and the driver IC as claimed. The Sugimoto et al. reference fails to suggest a driver integrated circuit mounted on a glass substrate using bumps and terminals of chip on glass mounting, as set forth in amended Claims 1, 2, 3, 11, 12, 34 and 35.

The Sugimoto et al. reference also fails to suggest a number of other features of the amended independent claims. For example, the claims generally recite a circuit board 22 that overlaps the glass substrate. Sugimoto et al. appears to disclose a circuit

board 14. However, the circuit board 14 is spaced apart from the glass substrate 11 and does not overlap the glass substrate 11 as claimed. The Office Action correctly states that the wiring board 19 overlaps the substrate, but the wiring board 19 is different from the claimed circuit board 22 and the circuit board 14 of Sugimoto et al. The Sugimoto et al. reference fails to suggest positioning its circuit board 22 such that it overlaps the glass substrate 11, as set forth in the amended independent claims.

The independent claims also recite that the circuit board 22 is a flexible circuit board. The Sugimoto et al. reference fails to suggest making its circuit board 14 flexible as claimed. The Office Action correctly states that the wiring board 19 of Sugimoto et al. is flexible, however, the wiring board 19 is different from the circuit board 14 and the circuit board as claimed. The Sugimoto et al. reference fails to suggest making its circuit board 14 a flexible circuit board as claimed.

As set forth above, the Sugimoto et al. reference fails to suggest each and every feature of amended independent Claims 1, 2, 3, 11, 12, 34 and 35. Therefore, the Sugimoto et al. reference fails to render obvious the amended independent claims as well as those claims dependent therefrom. Applicants respectfully request reconsideration and withdrawal of this Section 103 rejection.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance. Thus, prompt

and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

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